# Human PD-1/PDCD1 Protein

**Cat. No.** PD1-HM101

## Description

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|---|---|
| **Source** | Recombinant Human PD-1/PDCD1 Protein is expressed from Expi293 with His tag at the C-terminal. |
| | It contains Leu25-Gln167. |
| **Accession** | Q15116-1 |
| **Molecular Weight** | The protein has a predicted MW of 17 kDa. Due to glycosylation, the protein migrates to 38-50 kDa based on Tris-Bis PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Tris-Bis PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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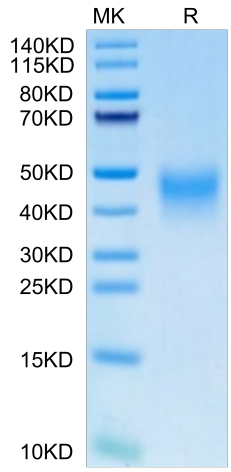
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge tubes before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles. |

## Background

Programmed cell death protein 1, also known as PD-1 and CD279 , is a protein found on the surface of cells that has a role in regulating the immune system's response to the cells of the human body by down-regulating the immune system and promoting self tolerance by suppressing T cell inflammatory activity.

## Assay Data

**Tris-Bis PAGE**




Human PD-1 on Tris-Bis PAGE under reduced.
The purity is greater than 95%.

**SEC-HPLC**

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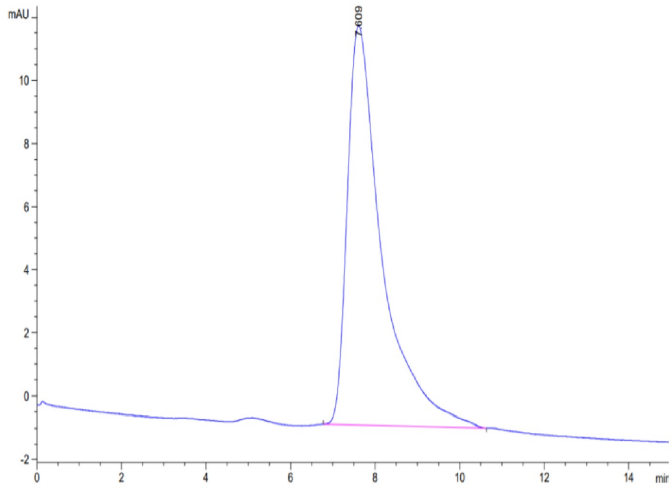
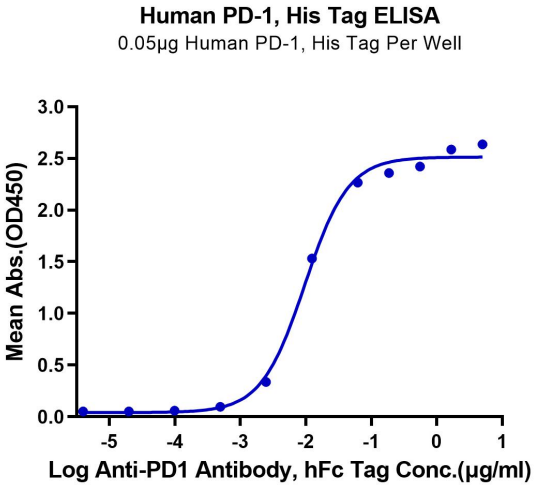
## Assay Data




The purity of Human PD-1 is greater than 95% as determined by SEC-HPLC.

### ELISA Data




Immobilized Human PD-1, His Tag at 0.5μg/ml (100μl/Well). Dose response curve for Anti-PD-1 Antibody, hFc Tag with the EC50 of 9.6ng/ml determined by ELISA.